

## CLAIMS

What is claimed is:

- 5           1. An engineered zinc finger protein that binds to a target site in a plant gamma-tocopherol methyl transferase (GMT) gene.
2. The zinc finger protein of claim 1, wherein said protein modulates expression of GMT.
- 10           3. A fusion polypeptide comprising a zinc finger protein according to claim 1 and at least one functional domain.
4. The fusion polypeptide of claim 3, wherein the functional domain is an activation
- 15       domain.
5. An isolated polynucleotide encoding the zinc finger protein of claim 1.
6. An expression vector comprising the isolated polynucleotide of claim 5.
- 20           7. The expression vector of claim 6, comprising a plant promoter.
8. The expression vector of claim 7, wherein the promoter is tissue specific.

25